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NOTICE OF ALLOWANCE AND FEE(S) DUE

00136

7590

04/19/2004

JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004 EXAMINER

LINDSAY JR, WALTER LEE

ART UNIT PAPER NUMBER

2812

DATE MAILED: 04/19/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,611	06/26/2003	Won Chang Lee	P68938US0	2248

TITLE OF INVENTION: METHOD FOR FORMING WORD LINE OF SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/19/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further con indicated unless corrected b maintenance fee notification	elow or directed otherwise	Patent, advance ordin Block 1, by (a)	ders and notificati specifying a new	on of maintenance fees correspondence address	will be mailed to the current s; and/or (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the			
00136 7590 04/19/2004			Fee(s) Transmittal. TI papers. Each addition	his certificate cannot be used for all paper, such as an assignment te of mailing or transmission.	or any other accompanying		
JACOBSON HO	LMAN PLLC			Ce	rtificate of Mailing or Trans	mission	
400 SEVENTH ST	REET N.W.			I hereby certify that t	his Fee(s) Transmittal is being	g deposited with the United	
SUITE 600				addressed to the Ma	with sufficient postage for fire	above, or being facsimile	
WASHINGTON, D			transmitted to the USI	PTO, on the date indicated bel	OW. (Depositor's name)		
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	1	FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,611	06/26/2003		Won Chang I	ee	P68938US0	2248	
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nonprovisional	NO	\$1330		\$300	\$1630	07/19/2004	
EXAM	INER	ART UN	IT	CLASS-SUBCLASS]		
LINDSAY JR,	WALTER LEE	2812		438-301000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of up agents OR, alto firm (having agent) and the	r printing on the patent front page, list (1) the s of up to 3 registered patent attorneys or 5 OR, alternatively, (2) the name of a single (having as a member a registered attorney or 2 and the names of up to 2 registered patent leys or agents. If no name is listed, no name e printed.			
3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submitted (A) NAME OF ASSIGNI	an assignee is identified be d to the USPTO or is being s	low, no assignee da submitted under ser	nta will appear on parate cover. Comp	the patent. Inclusion of a	assignee data is only appropria T a substitute for filing an assi UNTRY)	ate when an assignment has ignment.	
Please check the appropriate	assignee category or catego	ries (will not be pri	nted on the patent	; 🕒 individual 🗅	corporation or other private gr	oup entity	
4a. The following fee(s) are	enclosed:	4b	. Payment of Fee(s):			
☐ Issue Fee		☐ A check in the amount of the fee(s) is enclosed.					
☐ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of (Copies		The Director in Deposit Account in	s hereby authorized by o Number	charge the required fee(s), or enclose an extra c		
Director for Patents is reques	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to re-ap	ply any previously paid	issue fee to the application ide	ntified above.	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and Publication Fee (if required) will not be accorder than the applicant; a registered attorney or agent; or the assigne interest as shown by the records of the United States Patent and Trademark			e or other party k Office.	in	•		
This collection of information is required by 37 CFR 1.311. The inform obtain or retain a benefit by the public which is to file (and by the US application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.1 estimated to take 12 minutes to complete, including gathering, preparing, completed application form to the USPTO. Time will vary depending to case. Any comments on the amount of time you require to complete suggestions for reducing this burden, should be sent to the Chief Inform Patent and Trademark Office, U.S. Department of Commerce, ATO SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.			nation is required PTO to process) at 4. This collection, and submitting the upon the individuation officer, U. lexandria, Virgin THIS ADDRES	to in is ne al or S. ia S.	•		
Under the Paperwork Recollection of information u	duction Act of 1995, no policies it displays a valid OM	persons are require B control number.	ed to respond to	a			
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WASHINGTON	N, DC 20004			2812	
				DATE MAILED: 04/19/2004	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	10/603,611	LEE, WON CHANG	
Notice of Allowability	Examiner	Art Unit	
	Walter L. Lindsay, Jr.	2812	
Th MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to			,
2. The allowed claim(s) is/are <u>1-6</u> .			
3. \boxtimes The drawings filed on <u>26 June 2003</u> are accepted by the Ex	xaminer.		·
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of this application.	complying with the red	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the sheet in the sheet in the sheet is sheet in the sheet in t	on's Patent Drawing Review (PTO-6 s Amendment / Comment or in the O 84(c)) should be written on the drawin	ffice action of	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	Note the .
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	5. Notice of Informal Page 18. Interview Summary Paper No./Mail Dat 7. Examiner's Amendin 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	

Application/Control Number: 10/603,611 Page 2

Art Unit: 2812

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-6 are allowed.

2. The following is an examiner's statement of reasons for allowance: the prior art,

either singly or in combination fails to anticipate or render obvious, the limitations of:

...(b) selectively etching the sacrificial insulation film to form an I-type sacrificial

insulation film pattern on a predetermined region of the active region where a channel

region is to be formed; (f) sequentially forming a insulation film and a second interlayer

insulation film on the entire surface; (h) removing the sacrificial insulation film pattern to

expose the semiconductor substrate; (i) growing a gate oxide film on the exposed

portion of the semiconductor substrate; (j) forming a conductive layer on the entire

surface, as required by claim 1.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571)

272-1674. The examiner can normally be reached on Monday-Thursday.

Art Unit: 2812

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John F Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Supervisory Patent Examiner Technology Center 2800